OWEN McDONOUGH, PhD

(b) (6)

PROFILE

Experienced, passionate, and highly personable aquatic ecology PhD and environmental policy analyst with expertise in the Clean Water Act and jurisdictional waters of the United States, stormwater and floodplain management, wetland delineation, ecosystem restoration / mitigation, water quality trading, and the Endangered Species Act

OBJECTIVE

I strive to collaboratively and creatively apply my scientific and policy expertise to address pressing environmental challenges.

EDUCATION

PhD, Wetland & Stream Ecology (2013)
University of Maryland, College Park, MD
GPA 3.90, Darwin Fellow, Garden Club of America Scholar

BS, Ecology (2005)
The College of William & Mary, Williamsburg, VA
GPA 3.90, Phi Beta Kappa, *summa cum laude*

SKILLS

Environmental science and policy, scientific research, watershed management, freshwater ecology, ecosystem restoration, statistical analysis and data analytics (R, MatLab, Excel), water quality monitoring, biogeochemistry, soil science, Microsoft Office, PC and Mac operating systems, excellent written and oral communications

EXPERIENCE

Senior Program Mgr., Environmental Policy, National Association of Home Builders
2014 - Present, Washington, DC

- Engage with federal agency staff (EPA, USACE, FEMA, HUD, FWS, CEQ) to advocate for environmental policies that both protect natural resources and promote responsible land development
- Analyze policy, regulation, and legislation related to the Clean Water Act, National Flood Insurance Act, and Endangered Species Act, and assess impacts on the residential construction industry
- Manage technical assistance programs for approximately 750 state and local home building associations on key environmental issues; my recent advocacy efforts resulted in more than $100 million in annual savings to the residential construction industry
- Member: Waters Advocacy Coalition; Federal Water Quality Coalition; NAHB Environmental Issues Committee

Post - Doctoral Fellow, US EPA Office of Wetlands, Oceans, & Watersheds
2013 - 2014, Washington, DC

- Supported EPA's Healthy Watersheds Initiative, a non-regulatory program engaging with local, state, and federal partners to promote a proactive approach to meet the goals of the

Clean Water Act by identifying and protecting our nation's healthy watersheds and the ecosystem services they support

- Member: Chesapeake Bay Program Maintain Healthy Watersheds Goal Implementation Team; Office of Science & Technology Biological Condition Gradient Team

Graduate Research Associate, University of Maryland
2006 - 2012, College Park, MD

- Successfully proposed, implemented, and defended my doctoral dissertation evaluating hydrologic and ecologic connectivity between isolated wetlands, ephemeral streams, and downstream navigable waters
- Mentored undergraduate interns in the environmental sciences
- Presented research at local and national conferences (*e.g.*, Society of Freshwater Scientists, Society of Wetland Scientists, American Geophysical Union); published research in peer reviewed journals
- Teaching Assistant: Principles of Biology & Ecology; Stream Restoration

Stormwater Inspector, Harris County Department of Public Infrastructure
2005 - 2006, Houston, TX

- Inspected residential and commercial development in the nation's fourth largest metropolitan area for compliance with local, state, and federal stormwater management regulations
- Worked with builders and developers to design and implement on-site stormwater management plans and install / maintain sediment controls to mitigate stormwater pollution
- Evaluated efficiency of stormwater best management practices to mitigate water quality impairment

PUBLICATIONS

McDonough, O.T. 2015. Taking Notice of WOTUS: A Home Building Industry Perspective. *Environmental Law Institute National Wetlands Newsletter* 37(4): 10-11.

McDonough, O.T., M.W. Lang, J.D. Hosen, and M.A. Palmer. 2015. Surface hydrologic connectivity between Delmarva Bay wetlands and nearby streams along a gradient of agricultural alteration. *Wetlands* 35: 41-53.

Palmer, M.A., and **O.T. McDonough**. 2013. Ecological restoration to conserve and recover river ecosystem services. In: *River Conservation: Challenges and Opportunities* (S. Sabater and A. Elosegi, eds). BBVA Foundation.

Lang, M.W., **O.T. McDonough**, G.W. McCarty, R.A. Oesterling, and B. Wilen. 2012. Enhanced detection of wetland-stream connectivity using LiDAR: Implications for improved wetland conservation and management. *Wetlands* 32: 461-473.

McDonough, O.T., J.D. Hosen, and M.A. Palmer. 2011. Temporary streams: the hydrology, geography, and ecology of non-perennially flowing waters. In: *River Ecosystems: Dynamics, Management and Conservation* (H.S. Elliot and L.E. Martin, eds). Nova Science Pub., Inc., Hauppauge, NY.